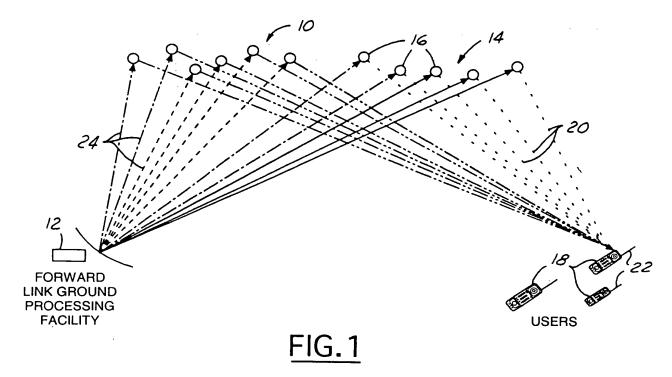


Substitute Drawing Sheet Fig's 1 and 2 Sheet 1 of 5

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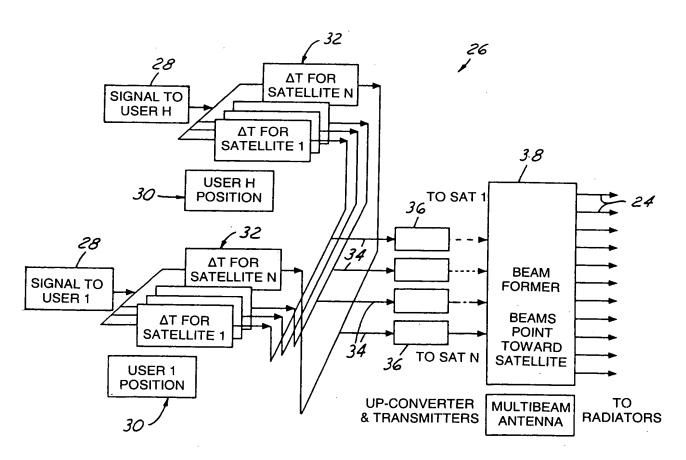


FIG. 2



Drawing Sheet Fig's 3 and 4 Sheet 2 of 5 Serial No. 09/576,652 - Filed May 22, 2000

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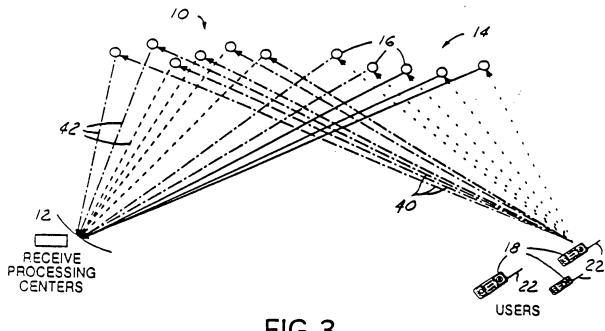


FIG. 3

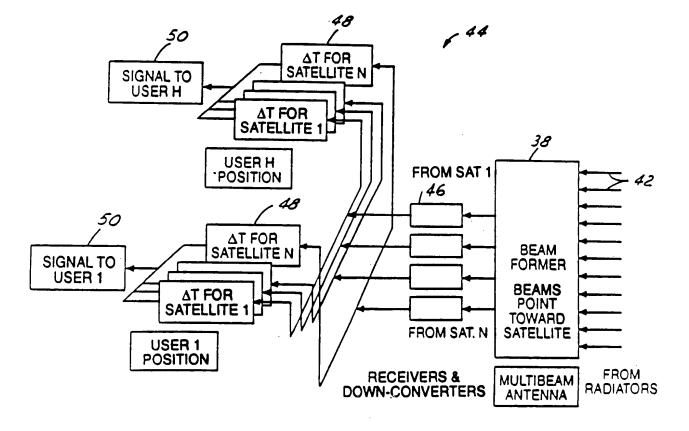


FIG. 4



Drawing Sheet Fig. 5 Sheet 3 of 5 Serial No. 09/576,652 – Filed May 22, 2000 Frank A. Hagen, et al.

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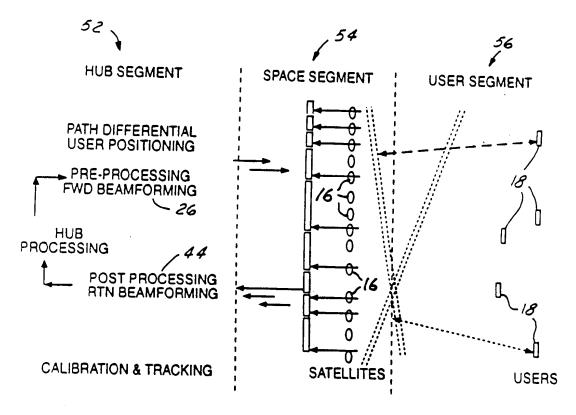
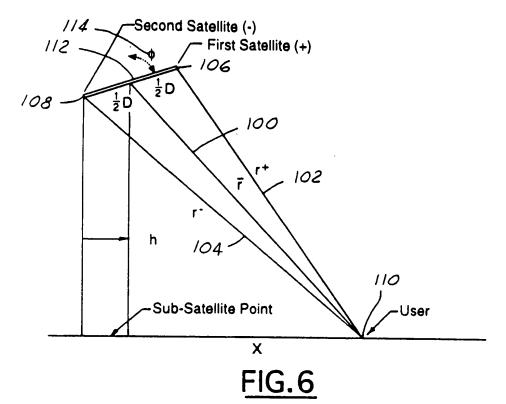


FIG.5



Sheet Fig's 6 and 7 Sheet 4 of 5 Serial No. 09/576,652 – Filed May 22, 2000 Frank A. Hagen, et al.

For: MULTI-NODE POINT-TO-POINT SATELLITE COMMUNICATION SYSTEM EMPLOYING MULTIPLE GEO SATELLITES



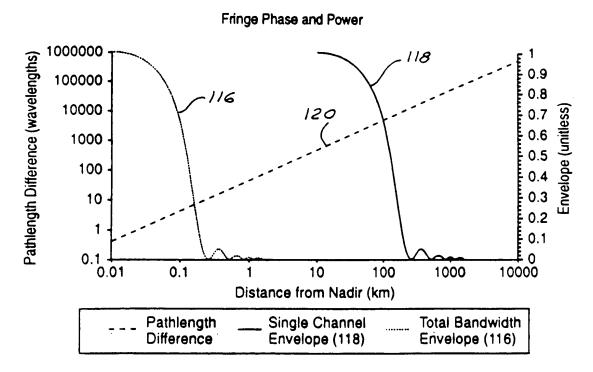


FIG.7



Drawing Sheet Fig's 8 and 9 Sheet 5 of 5 Serial No. 09/576,652 - Filed May 22, 2000 Frank A. Hagen, et al.

For: MULTI-NODE POINT-TO-POINT SATELLITE COMMUNICATION SYSTEM EMPLOYING MULTIPLE GEO SATELLITES

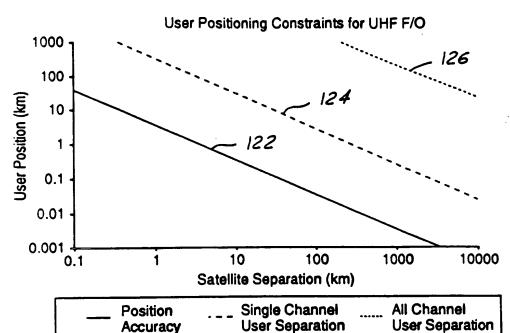
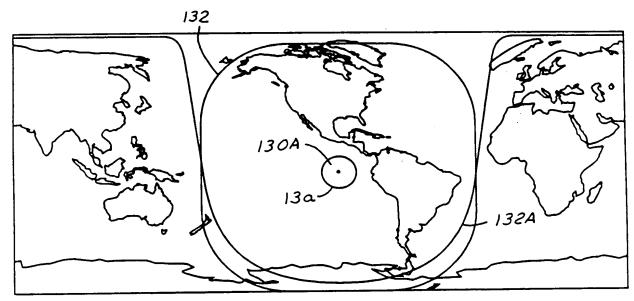


FIG.8



Sat0 Sat1 Orbital Parameters: **GEO GEO** Altitude: Longitude of Asending Node: 110°W 100°W 10° Inclination (i): 0° 0.087 = i/2**Eccentricity:** 90° Argument of Perigee

FIG.9